MySQL Installation and Set Up

Installing MySQL on Windows

Option 1: XAMPP

• For the installation, use the "PHP_installation" document.

✓ Start MySQL

- Open XAMPP Control Panel
- Click Start next to MySQL

Stop MySQL

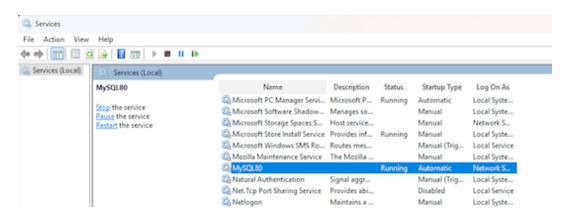
Click Stop in XAMPP Control Panel

Option 2: MySQL Installer (Official)

- Download from mysql.com
- Choose Server Only or Full Setup
- Guided installation with GUI

Start/Stop MySQL

• Use Services app (services.msc)



• Or use **Command Prompt**:

```
net start MySQL80
net stop MySQL80
```

(Replace MySQL80 with your actual service name)

Option 3: ZIP Archive (Manual Setup)

- Download MySQL ZIP Archive (not Installer)
- Extract to a folder (e.g., C:\mysql)
- Create my.ini file for configuration
- Initialize and install the service via the command line

Key Commands

```
mysqld --initialize --console
mysqld --install MySQL
net start MySQL
net stop MySQL
```

Summary of MySQL Windows Installation

Method	Difficulty	Best For
XAMPP	★ Easiest	Beginners, quick setup
MySQL Installer	★★ Medium	Structured install, GUI
ZIP Archive	★★★ Advanced	Full control, real-world setup

 MySQL was made for Linux and ported to Windows Later, so there are many options to choose from.

Recommendation

- Start with **XAMPP** for simplicity
- Use Installer or ZIP method to learn MySQL configuration and service management
- Practicing manual setup builds professional skills
- Ready to use Linux with Docker and WSL2.

Installing MySQL on macOS

- 1. Open Terminal.
- 2. Install Homebrew if not installed:
- 3. Install MySQL using Homebrew:

brew install mysql

Option 1: Running MySQL Using brew (Recommended)

 Start and stop MySQL service using brew (run mysql as a service):

```
brew services start mysql
brew services stop mysql
```

Option 2: Running MySQL Using mysql.server

Start and stop MySQL service using the command:

```
mysql.server start
mysql.server stop
```

You can use mysqladmin

```
mysqladmin -u root -p shutdown
```

Installing MySQL on Linux (Ubuntu/Debian)

Update packages

```
sudo apt update && sudo apt upgrade
```

Install MySQL server

```
sudo apt install mysql-server
```

Check status, start, and stop service

```
sudo systemctl status mysql
sudo systemctl start mysql
sudo systemctl stop mysql
```

Password Change

1. Verify installation by logging in:

```
mysql -u root -p
```

2. Change password

```
# choose any password you prefer
mysqladmin -u root password 'NewPassword'
```

Password security (Optional)

- For better security, you can change the password validation policy.
- Secure your root password right after installation.

```
mysql_secure_installation
```

When you need to remove the password validation policy.

```
mysql -u root -p
UNINSTALL COMPONENT <file://component_validate_password';>
```

Tips and Best Practices

- Choose the version compatible with your OS and system.
- Use official MySQL sources or package managers.
- Consider any GUI tools for easier management.

Warnings When You Stop MySQL

- Stopping MySQL will disconnect all apps and users.
- Save your work before stopping.
- If you use **Homebrew**, brew services start/stop mysql is recommended.
- For managed installations, always use official scripts or the Services menu.